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MACHINE-BUILDING INDUSTRY ADOPTS NEW TECHNIQUES

DISCUSS NEW CASTING METHODS -- Leningradskaya Pravda, No 86, 11 Apr 50

At a recent meeting, the Technical Council of the Leningrad Kirov Plant discussed the collaboration between scientists and industrialists in the field of casting. Specifically, they cited the achievement of Professor Karnaukhov and lecturer Morozov of the Academy of Sciences in introducing a new method of determining the hydrogen content of steel. They also discussed the success of scientists Butalov and Alloy [sic] of the Scientific Research Institute, who worked with the Kirov Plant in developing a new method of casting. This method is saving a considerable amount of metal and is cutting down expenditures of oxygen and acetylene. The output of perfect castings has risen 20 percent.

Karnaukhov and Morozov, together with lecturer Frantinskiy, are assisting the workers of the Martin furnace shop. As a result, smelting time has been cut sharply, and the output of high-quality metal has been increased.

NEW CHECKING METHOD CUTS DOWN REJECTS -- Moskovskaya Pravda, No 44, 11 Apr 50

A new method of periodic inspection is being applied in the hot stamping sections of the Zlatoust Machine Building Plant. The inspectors do not wait for the parts to be brought to them, but make their checks in the working area. As a result of the application of this method, rejects have been cut 75 percent in three sections.

MAGNET SALVAGES METAL -- Kommunist Tadzhikistana, No 90, 15 Apr 50

In order to reclaim pig iron which has spilled on sand, at the foundry of the Plant imeni Ordzhonikidze the sand is put through a separator which is equipped with a magnet. The magnet removes the particles of metal from the sand.

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PUT ELECTRIC-SPARK METHOD TO MANY USES -- Leningradskaya Pravda, No 88, 13 Apr 50

Electric-spark methods are used at the Krasnogvardeyets Plant in the manufacture of forging machines, cutting machines, presses, and many other units. Tools are coated with hard alloys by the electric-spark process. This treatment adds great durability to dies, mills, drills, and cutters.

FINDS PRESSES SUPERIOR TO HAMMERS -- Leningradskaya Pravda, No 91, 16 Apr 50

In the Leningrad Svoboda Plant, crank presses instead of steam hammers are used in the forge shops. This method, devised by Potekhin, has become well known in Leningrad. It has greatly increased labor productivity, and has improved working conditions.

According to Potekhin, methods in forging and stamping shops must be radically changed. Metal waste must be reduced, electric energy must be saved, and expenditure of cutting tools lowered. Practice has shown that the application of crank presses in forging answers all technical requirements and offers a number of advantages. The use of these presses in the Svoboda Plant has saved about one million rubles per year. This new method could be applied in railroad-car-building plants.

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